Earthquake Quiz Review Relay Race 1

1) What plate boundary is an earthquake most likely to happen?

Transform

2) What is an earthquake?

The movement of earth crust resulting from the build up of potential energy between 2 stuck lithospheric plates.

3) What is the difference between an epicenter and a focus?

Epicenter is the point above the focus at the Earth's surface. Focus is below the Earths surface when the Earths crust broke or cracked.

4) What instrument records seismic waves?

Seismograph

5) What is the difference between the Richter scale and the Modified Mercalli scale?

Modified Mercalli rate damage

Richter Scale rate Energy released by earthquake (magnitude)

Earthquake Quiz Review Relay Race 2

6) Name the 2 types of seismic waves.

- Body waves
- Surface waves

7) Fill in the chart:

Wave Feature	P - Waves	S - Waves
What material do they travel through?	liquids & solids	Solids
Type of motion they create	back & forth (slinky)	Sicle to Side
Speed	fast	slower than P waves faster than surface

8) What is the name of the seismic wave that: reach the earth's surface, are the slowest, cause the most damage, and can cause a side to side motion or an up and down motion? Surface

9) What is a fault?

Region on Earths surface that is broken and where movement occurs

10) What is stick-slip motion?

when friction causes two plate to become stuck. Eventually the stuck plates slip & one moves again. This causes energy release that causes an earthquake.

Earthquake Quiz Review Relay Race 3

11) What is the difference between a foreshock and aftershock?

Foreshocks happen before an earthquake and an aftershock happen after

12) As you increase numbers on the Richter scale, how many times stronger is each magnitude change? 10 times

How many times stronger would a 7 be than a 4? 1,000

13. How many seismic stations do you need to locate the epicenter of an earthquake? 3

14) How is the Richter scale and Moment Magnitude scale similar?

The both measure the energy released by an earthquake

15) What type of energy builds up to cause an earthquake?

potential